

Claims

1. (previously presented) A method for making a metal tube (2) sheathed with an electrically non-conducting plastic layer (1), for use in a motor vehicle for transporting liquid or gaseous media, especially fuels, and which is adapted to be connected to a conductive portion of the motor vehicle, the steps comprising, removing at least a portion of said plastic layer (1) of the metal tube (2) at an area of connection (3), providing a conductive covering section (4) which covers the area of connection (3) on all sides or more than covers the area of connection (3) on all sides, pressing said conductive covering onto the metal tube (2) at least at its ends under radial pressure applied along at least part of the circumference without any gaps.
2. (previously presented) The method according to claim 1, characterized in that the plastic layer is removed at a certain point on the tube at a certain width, and the covering section (4) is constructed as closed in the circumferential direction of the metal tube (2) and the conductive covering section overlies a portion of said plastic layer adjacent both longitudinal ends of said area of connection.
3. (original) The method according to any one of claims 1 or 2, characterized in that the covering section (4) consists of a metal crimp sleeve.
4. (original) The method according to claim 3, characterized in that the crimp sleeve (4) consists of aluminum or stainless steel.
5. (original) The method according to any one of claims 2 to 4, characterized in that the crimp sleeve (4) is pressed on mechanically.
6. (original) The method according to any one of claims 1 or 2, characterized in that the covering section (4) consists of a heat-shrinkable sleeve made of electrically conductive plastic.

7. (currently amended) ~~The method according to claim 6, A method for making a metal tube (2) sheathed with an electrically non-conducting plastic layer (1), for use in a motor vehicle for transporting liquid or gaseous media, especially fuels, and which is adapted to be connected to a conductive portion of the motor vehicle, the steps comprising, removing at least a portion of said plastic layer (1) of the metal tube (2) at an area of connection (3), providing a conductive covering section (4) which covers the area of connection (3) on all sides or more than covers the area of connection (3) on all sides, the covering section (4) consists of a heat-shrinkable sleeve made of electrically conductive plastic, pressing said conductive covering onto the metal tube (2) at least at its ends under radial pressure applied along at least part of the circumference without any gaps, wherein at least one bead (5) which runs around the circumference of the metal tube (2) is produced on said metal tube (2) and wherein the plastic layer (1) covering the bead (5) is removed at least over part of the bead circumference, preferably over the total bead circumference, and wherein the heat-shrinkable sleeve made of electrically conductive plastic is pushed onto the area of connection (3) on the bead (5).~~

8. (previously presented) The method according to claim 6, characterized in that the heat-shrinkable sleeve (4) is shrunk onto the metal tube (2) by heat treatment.

9. (previously presented) The method according to claim 6, characterized in that the heat-shrinkable sleeve (4) is provided with an electrically conductive adhesive coating on the inside.

10-13. (cancelled)

14. (previously presented) The method according to claim 7, characterized in that the heat-shrinkable sleeve (4) is shrunk onto the metal tube (2) by heat treatment.

15. (currently amended) The method according to claim to 7, characterized in that the heat-shrinkable sleeve (4) is provided with an electrically conductive adhesive coating on the inside.

16. (previously presented) The method according to claim 8, characterized in that the heat-shrinkable sleeve (4) is provided with an electrically conductive adhesive coating on the inside.

17. (previously presented) The method according to claim 14, characterized in that the heat-shrinkable sleeve (4) is provided with an electrically conductive adhesive coating on the inside.

18. (new) A method for making a metal tube (2) sheathed with an electrically non-conducting plastic layer (1), for use in a motor vehicle for transporting liquid or gaseous media, especially fuels, and which is adapted to be connected to a conductive portion of the motor vehicle, the steps comprising, removing at least a portion of said plastic layer (1) of the metal tube (2) at an area of connection (3), providing a conductive covering section (4) which covers the area of connection (3) on all sides or more than covers the area of connection (3) on all sides, the covering section (4) consists of a heat-shrinkable sleeve made of electrically conductive plastic, pressing said conductive covering onto the metal tube (2) at least at its ends under radial pressure applied along at least part of the circumference without any gaps, wherein at least one bead (5) which runs around the circumference of the metal tube (2) is produced on said metal tube (2), and wherein the plastic layer (1) covering the bead (5) is removed at least over part of the bead circumference, preferably over the total bead circumference, and wherein the heat-shrinkable sleeve made of electrically conductive plastic is pushed onto the area of connection (3) on the bead (5), and wherein the plastic layer is removed at a certain point on the tube at a

certain width, and the covering section (4) is constructed as closed in the circumferential direction of the metal tube (2) and the conductive covering section overlies a portion of said plastic layer adjacent both longitudinal ends of said area of connection.

19. (new) The method according to claim 18, characterized in that the heat-shrinkable sleeve (4) is shrunk onto the metal tube (2) by heat treatment.

20. (new) The method according to claim 18, characterized in that the heat-shrinkable sleeve is provided with an electrically conductive adhesive coating on the inside.

21. (new) The method according to claim 20, characterized in that the heat-shrinkable sleeve (4) is provided with an electrically conductive adhesive coating on the inside.